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DATE: February 16, 2012

TO: Kelley Chase, EPA Region 3 OSC  
Cynthia Caporale, EPA Region 3 OASQA

THROUGH: Ex. 4 - CBI SERAS Program Manager

FROM: Ex. 4 - CBI SERAS QA/QC Officer

SUBJECT: VERIFICATION/COMPLETENESS CHECK – DIMOCK, PA LABORATORY DATA  
File [1202003 FINAL PART 1 of 3 R33907 02 15 12 1741.pdf](#)

## INTRODUCTION

On February 14, 2012, a review of the case narratives and corresponding certificates of analysis from the EPA R3 (Metals Report Posted Feb 15) was performed at the SERAS facility in accordance with the Follow-Up Verification/Completeness Check agreed upon during our teleconference on Wednesday 2/8/12.

The assumptions for this review include the following: 1) Case narratives from the Regional labs and/or subcontract labs have been reviewed in accordance with Regional or Environmental Services Assessment Team (ESAT) protocols and contain all pertinent and complete information to conduct the completeness check. SERAS will base this review on the information provided by the laboratory and not on an actual data package; and 2) SERAS will relay any “red” flags to the EPA R3 personnel to resolve and determine data usability.

## OBSERVATIONS

In accordance with Table 1 – Field and QC Sampling Summary (Rev01 - 2/3/12), Table 2 – Sample Analytical Requirements Summary (Rev01 – 2/3/12), Methods for Groundwater and Surface Water Samples and the R3 SOPs R3QA159-021511 for ICP and R3QA-116-021511 for ICP, the following observations were noted and need to be clarified/resolved.

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1. Table 1 – Field and QC Sampling Summary lists mercury as a metal of interest. No data are reported for mercury in this file.
2. The requested RL on the Methods for Surface Waters and Groundwaters lists the RL for Uranium as 10 µg/L. The laboratory reported 1.0 µg/L. Verify that the RL reported is correct.
3. Due to lack of project action limits, it was noted that several metals exceeded the Maximum Contaminant Levels (MCLs) for drinking water: Manganese for samples HW31, HW31z, HW15a, HW15a-F, HW31-F, HW31z-F, HW47 and HW47-F and arsenic for samples HW47, HW47-P, HW47-PF and HW47-F. The corresponding LCS, MS and duplicate samples were within QC criteria.

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4. There were several non-typical metals that were detected in some of the drinking water samples for which no MCLs are available: Strontium for samples HW43-P, HW43,HW45-F, HW45-PF, HW43-F, HW43-PF, HW31-P, HW30, HW30-P, HW31, HW31z, HW15a, HW30-PF, HW15a-F, HW31-F, HW31z-F, HW30-F, HW31-PF, HW47, HW51, HW51-P, HW51-PF, HW51-F and HW47-F; uranium for samples HW43-P, HW43, HW45-F, HW45-PF, HW43-F, HW43-PF, HW15a-P, HW30, HW30-P, HW30-PF, HW30-F, HW15a-PF, HW51, HW51-P, HW51-PF and HW51-F; boron for samples HW31-P, HW30, HW30-P, HW31, HW31z, HW30-PF, HW31-F, HW31z-F, HW30-F, HW31-PF, HW47, HW47-P and HW47-F.
5. It is assumed that all required instrument QC in the method was run and was within the criteria listed in the EPA R3 SOPs since this information is not available in the laboratory report.

cc: Sella Burchette, SERAS Project Officer  
John Gilbert, ERT WAM  
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Ex. 4 - CBI, SERAS Task Leader

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